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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/538,880	03/30/2000	Meifen Wang	890-003.003	8813

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EXAMINER

LEE, DIANE I

ART UNIT PAPER NUMBER

2876

DATE MAILED: 07/10/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

A/b

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/538,880	WANG, MEIFEN	
	<b>Examiner</b>	<b>Art Unit</b>	
	Diane I. Lee	2876	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 3/30/02.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7 and 8 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 9 and 10 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. Claims 1-10 are presented for examination.
2. Receipt is acknowledged of the Amendment filed 30 March 2000.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zeitman [US 5,940,481] in view of the prior art admitted by the applicant.

Re claim 1: Zeitman discloses a parking toll system (parking management communication system 10) for parking management system that is achieved through a user interface 20 including a public telephone 22 (i.e., a wired phone), a mobile phone 24, a computer terminal 26 connected to a modem 28 or a computer network (not specifically shown) (see col. 3, lines 12+). The communication system includes billing apparatus 30 for billing a user for use of the parking and the telephone account of the user is charged for use of the parking facility, such as charging the user's telephone account, e.g., the bill is included user's phone bill (see col. 1, lines 56+; col. 2, lines 5+; col. 3, lines 23+; and figure 1).

Although Zeithman teaches that the operation of parking management system includes a parking facility and a parking lot (see col. 3, lines 53+), he does not explicitly states that the parking toll system comprising a on-street parking toll arrangement and a parking lot toll arrangement.

Applicant admitted that parking toll systems are generally categorized as on-street parking toll and parking lot toll system (see page 1, lines 9+).

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It would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to recognize that the parking toll system of Zeithman obviously includes a on-street parking toll arrangement and a parking lot toll arrangement in order to provide a comprehensive parking management service.

Re claim 2: Zeithman teaches a parking toll system having a controller (control unit 12) for transmitting and receiving the data via a central interface unit 16 and a user interface 20 including a public telephone 22 (i.e., a wired phone), a mobile phone 24, a computer terminal 26 connected to a modem 28 or a computer network (see col. 3, lines 12+), which obviously teaches that the communication provided by the telephone company is employed by the controller for transmitting and receiving data (see figure 2).

Zeithman does not explicitly teach the SMS, WAP, GPRS, and MLS are provided by telephone company and are employed by the controller for transmitting and receiving data.

Applicant stated a plurality communication system employed by a mobile phone company such as GSM, CDMA, TDMA, AMPS each provided with a data service equipment including SMS, WAP, GPRS, MLS (see page 2, lines 20+).

It would have been an obvious to an artisan of ordinary skill in the art at the time the invention was made to employed the existing data service equipment available by the telephone company in the system of Zeithman in order to extend the communication capability of the parking toll system. Therefore such modification would have been an obvious extension taught by Zeithman.

Re claims 7-8: Zeithman teaches the parking facility toll arrangement includes the user reports parking to central interface unit 16 via user interface unit 20 using his or her mobile telephone 24 providing vehicle identification, user identity, parking facility identification number, time of parking, and etc. (see col. 4, lines 7+).

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5. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zeithman as modified by the prior art admitted by the applicant as applied to claim 1 above, and further in view of Williams [US 6,081,205]. The teachings of Zeithman as modified by the prior art admitted by the applicant have been discussed above.

Zeithman teaches the host of the parking arrangement having a PC 12 including a wireless communication interface 16 which serves as a first mobile phone connected to a mobile phone communication box through RS-232 cable (see figure 2); and the parking facility may be sensed by a sensor such as a optical sensor which reads the vehicle identification data, a card reader to read the user's identification data, and automatically reports the parking of the vehicle to central interface 16 which obviously teaches that the parking facility has a meter or a device with a sensor, a reader, a processing means, and a communication transceiver (i.e., wireless communication via a mobile telephone) therein in order to carry out the automatic reporting function (see col. 4, lines 7+).

Zeithman as modified by the prior art admitted by the applicant fails to teach the specifics of the on-street parking toll arrangement such as a plurality of parking meters each located adjacent to a corresponding parking meters each located adjacent to a corresponding parking space including a microprocessor, an infrared detector, a display, a keypad, and a second mobile phone

Williams discloses a plurality of electronic parking meters 30, 130 each located adjacent to a corresponding parking space including a microprocessor 32, 148 a display 18, 136, a keypad 20, 120, and a transmitter-responding means 34, 146 which serves as a second mobile phone, and a vehicle presence sensor 61 (see col. 3, lines 15+; col. 5, lines 38+; and figures 1-4).

In view of Williams' teaching, it would have been an obvious to an artisan of ordinary skill in the art at the time the invention was made to incorporate the parking meter device in the system of Zeithman as modified by the prior art admitted by the applicant in order to provide a meter that has an input device

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that is interconnected to the controller for greater input function capability and an output that gives a visual information to the user.

*Allowable Subject Matter*

6. Claims 5-6 and 9-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: Although Zeithman teaches the process of the user reports parking to central interface unit 16 via user interface unit 20 providing user identity via his/her mobile telephone 24 and the use of the parking facility is charged to the user's telephone account, he does not teach or fairly suggest the specifics of the parking lot toll arrangement, i.e., a host having a low carrier frequency device, a first digital coder/decoder connected to a mobile phone communication box through RS-232 cable, an entrance monitor at the entrance of the parking lot including a first card reader, first display, a first processor, and a voicer, an exit monitor in communication with the host including third processor, display, an infrared detector, a second low frequency device, and a second digital CODEC; and on-street parking toll arrangement with the specific operating process having the user inputting the mobile phone number through the keypad of the parking meter to activate the system after validated by the telephone company, as set forth in the claims.

*Conclusion*

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Moore [US 5,845,268], Thomas et al. [US 6,373,442], and Moore [US 5,845,268] discloses an on-street parking meter that is in communication with the parking management systems.

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Herrmann [DE 198 28 951 A1], Hjelmvic [WO 99/48062], Ilen [WO 96/11453], Morrill [US 5,991,749], and Ho [US 6,188,328] discloses a parking systems using a mobile telephone.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane I. Lee whose telephone number is 703-306-3427. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on 703-305-3503. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



Diane I. Lee  
Primary Examiner  
Art Unit 2876

July 3, 2002